

Design Requirements for The Residential Code of New York State-2010 City of Yonkers

Table R 301.2(1)
CLIMATIC AND GEOGRAPHIC DESIGN CRITERIA

GROUND SNOW LOAD ⁱ	WIND SPEED ^d (mph)	SEISMIC DESIGN CATEGORY ^e	SUBJECT TO DAMAGE FROM			ICE BARRIER UNDERLAYMENT REQUIRED ^g	FLOOD HAZARDS ^f
			Weathering ^a	Frost Line Depth ^b	Termite ^c		
20	110	C	Severe	3'-6"	Moderate To Heavy	Yes	(a.) 7/09/1980 (b.) 4/11/2000 (c.) 9/25/2007 for FIRM map dated 9/28/2007

For SI: 1 pound per square foot = 0.0479 kN/m², 1 mile per hour = 0.447 m/s.

- a. Weathering may require a higher strength concrete or grade of masonry than necessary to satisfy the structural requirements of this code. The weathering column shall be filled in with the weathering index (i.e., "negligible," "moderate" or "severe") for concrete as determined from the Weathering Probability Map [Figure R 301.2(3)]. The grade of masonry units shall be determined from ASTM C 34, C 55, C 62, C 73, C 90, C 129, C 145, C 216, or C 652.
- b. The frost line depth may require deeper footings than indicated in Figure R 403.1(1). The jurisdiction shall fill in the frost line depth column with the minimum depth of footing below finish grade.
- c. The jurisdiction shall fill in this part of the table to indicate the need for protection depending on whether there has been a history of local subterranean termite damage.
- d. The jurisdiction shall fill in this part of the table with the wind speed from the basic wind speed map [Figure R 301.2(4)]. Wind exposure category shall be determined on a site-specific basis in accordance with Section R 301.2.1.4. {The Special Wind Region should serve as a warning to the design professional in evaluating wind loading conditions},
- e. The jurisdiction shall fill in this part of the table with the Seismic Design Category determined from Section R 301.2.2.1.
- f. The jurisdiction shall fill in this part of the table with (a) the date the jurisdiction's entry into the National Flood Insurance Program (date of adoption of the first code or ordinance for management of flood hazard areas), (b) the date(s) of the currently effective FIRM and FBFM, or other flood hazard map adopted by the community, as may be amended. {City of Yonkers originally adopted Flood regulations on 7/9/1980 with GO # 5-1980; amended 4/11/2000 with LL# 2-2000; amended 9/25/2007 with LL# 11-2007},
- g. In accordance with Sections R905.2.7.1, R905.4.3.1, R905.5.3.1, R905.6.3.1, R905.7.3.1 and R905.8.3.1, where there has been a history of local damage from the effects of ice damming, the jurisdiction shall fill in this part of the table with "YES." Otherwise, the jurisdiction shall fill in this part of the table with "NO."
- i. The ground snow loads to be used in determining the design snow loads for roofs are given in Figure R301.2(5) for sites at elevations up to 1000 feet. Sites at elevations above 1000 feet shall have their ground snow load increased from the mapped value by 2 psf for every 100 feet above 1000 feet.